



# UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE  
United States Patent and Trademark Office  
Address: COMMISSIONER FOR PATENTS  
P.O. Box 1450  
Alexandria, Virginia 22313-1450  
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
-----------------	-------------	----------------------	---------------------	------------------

10/671,254

09/24/2003

Yuji Okamoto

59880 (70904)

8151

21874 7590 10/02/2009  
EDWARDS ANGELL PALMER & DODGE LLP  
P.O. BOX 55874  
BOSTON, MA 02205

EXAMINER

DHINGRA, PAWANDEEP

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

10/02/2009

PAPER

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/671,254	OKAMOTO ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	PAWANDEEP S. DHINGRA	2625	

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 17 September 2009.
- 2a) ☐ This action is **FINAL**.                      2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-8 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-8 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                     | 4) <input type="checkbox"/> Interview Summary (PTO-413)           |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____                                      |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08)          | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____  | 6) <input type="checkbox"/> Other: _____                          |

### **DETAILED ACTION**

- This action is responsive to the following communication: Request for continued examination (RCE) filed on 9/17/2009.
- Claims 1-8 are pending.

### ***Response to arguments***

Applicant's amendments, filed 8/18/2009 have been entered and fully considered. However, applicant's arguments filed 8/18/2009 have been fully considered but they are not persuasive.

Applicant argues that cited references fails to disclose "suspension of the invalidation being performed, in response to a request of the suspension of the invalidation by the directing means, after a predetermined code is inputted by a user, the predetermined code being matched with a code administrated in the image processing device to confirm that the user who requested the suspension of the invalidation is a certified user, and the permitting means then suspends the invalidation being performed in all areas of the image data storing means".

In reply, examiner asserts that combination of Koakutsu in view of Inoue Rieko et al. (referred as Tokukaihei in this document) further in view of Ikegami successfully teaches the above argued limitations; please see discussion of claim 1 below.

Applicant further argues that in Ikegami "a password is registered in advance with regard to a particular personal box, and the password can be entered to delete the personal box. In other words, Ikegami merely discloses that entry of a password results

Art Unit: 2625

in deletion of a particular personal box, not that entry of the password could somehow suspend a deletion being performed”.

In reply, examiner asserts that Tokukaihei teaches suspending a deletion process being performed (in progress).

And, Ikegami teaches determining whether a user is a certified user of the particular personal box authorized to carry out the deletion process. Ikegami teaches entry of a predetermined code (password) to confirm that a user requesting invalidation is a certified user for the particular personal box.

Combination of Tokukaihei and Ikegami teaches the step of requiring and entry of a password for permitting an interrupt process such as deletion process as taught by Ikegami *such that when user would like to suspend the deletion process being performed (in progress) (as taught by Tokukaihei), a correct password entry would be required (as taught by Ikegami which requires password entry to permit an interrupt process such as deletion process)* in order to add further security to deletion process which allows only certain permitted users to carry out the deletion process and for the benefit of attaining satisfactory security for the image data stored in the memory as taught by Tokukaihei in abstract, and having a system in which “an individual other than a legitimate user is not allowed to perform maintenance on this personal box even if the personal box is one for which a password is not necessary when printing data from the box” as taught by Ikegami at column 1, lines 59-67. Therefore, it would have been obvious to combine the teachings of Koakutsu, Tokukaihei (Rieko), and Ikegami to obtain the invention as specified in claim 1.

Applicant further argues that none of the cited references teach suspending the invalidation being performed in all areas of the image data storing means.

In reply, examiner asserts that Tokukaihei teaches permitting the suspension of the invalidation being performed, in response to a request of the suspension of the invalidation and suspending the invalidation being performed in all areas of the image data storing means (see abstract, figure 4, paragraph 51-56, note that the deletion being performed in all areas of the hard disk 304b will be stopped in response to the request for stopping the deletion, hence the request is being permitted, plus, request for stopping the deletion is made while the deletion process, S402-S404, is being performed in a repetitive manner).

Applicant further argues that "In accordance with the teachings of Ikegami, a password entered for each "personal box" would apply only to that "personal box" (or image data), and not to the entire hard disk of Tokukaihei. In contrast, independent claims 1 and 5 recite that upon entry of a predetermined code that matches a code "administrated in the image processing device," an invalidation/deletion being performed is suspended in all areas of an image data storing means of the image processing device".

In reply, examiner asserts that according to instant application, the invalidation is suspended in all data areas of the hard disk 12. In other words, the invalidation is suspended in all areas of the hard disk which have data and which are currently under the process of being deleted. In Ikegami, the personal box currently selected can be the only box with data and that box can be deleted upon successful entry of a code.

Art Unit: 2625

Plus, Tokukaihei clearly teaches suspending the deletion process being performed in all data areas of the hard disk. Thus, combination of Tokukaihei and Ikegami successfully teaches once it's confirmed that the user who requested the suspension of the invalidation is a certified user, the permitting means then suspends the invalidation being performed in all data areas of the hard disk.

### ***Continued Examination Under 37 CFR 1.114***

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 9/17/2009 has been entered.

### ***Examiner Notes***

Examiner cites particular columns and line numbers in the references as applied to the claims below for the convenience of the applicant. Although the specified citations are representative of the teachings in the art and are applied to the specific limitations within the individual claim, other passages and figures may apply as well. It is respectfully requested that, in preparing responses, the applicant fully consider the references in entirety as potentially teaching all or part of the claimed invention, as well as the context of the passage as taught by the prior art or disclosed by the examiner.

***Claim Rejections - 35 USC § 103***

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. Claims 1-6 are rejected under 35 U.S.C. 103 as being unpatentable over Koakutsu et al., US 6,285,459 in view of Inoue Rieko et al. (referred as Tokukaihei in this document), JP 09-284572 further in view of Ikegami, US 6,745,334.

Re claim 1, Koakutsu et al. discloses an image processing device (see figure 1, element 3), comprising: image data inputting means (figure 1, receiving unit 2 of printer) for inputting image data (see abstract); image data storing means (see figure 2, elements ROM 22, RAM 23) for storing the image data inputted by the image data inputting means (see abstract, figure 2, column 3, line 54-column 4, line 55); image data processing means (see CPU 21, figure 2) for processing the image data stored in the image data storing means (see abstract, column 3, line 54-column 4, line 55); and image data invalidating means (i.e. erasure unit 6, fig. 1) for performing invalidation of the image data (i.e. erasure of image data) stored in the image data storing means (see abstract, column 3, line 54-column 4, line 55).

Koakutsu fails to explicitly disclose the image processing device further comprising: directing means for directing suspension of the invalidation performed by the image data invalidating means while the invalidation is being performed; and

Art Unit: 2625

permitting means for permitting the suspension of the invalidation being performed, in response to a request of the suspension of the invalidation by the directing means, after a predetermined code is inputted by a user, the predetermined code being matched with a code administrated in the image processing device to confirm that the user who requested the suspension of the invalidation is a certified user, and the permitting means then suspends the invalidation being performed in all areas of the image data storing means, wherein the invalidation being performed cannot be suspended unless approved by the certified user by entry of the predetermined code, thus maintaining a security level and allowing urgent data processing of a new job to be carried out.

However, Tokukaihei teaches directing means for directing suspension (stopping) of the invalidation (deletion) performed by the image data invalidating means (see figures 1-2) while the invalidation is being performed (see abstract, see figure 4, paragraphs 51-56, note that the request for stopping the deletion is made while the deletion process, S402-S404, is being performed in a repetitive manner). Tokukaihei further teaches permitting means for permitting the suspension of the invalidation being performed, in response to a request of the suspension of the invalidation by the directing means and the permitting means then suspends the invalidation being performed in all areas of the image data storing means (see abstract, figure 4, paragraph 51-56, note that the deletion being performed in all data areas of the hard disk 304b will be stopped in response to the request for stopping the deletion is made by the directing means, hence the request is being permitted, plus, request for stopping the deletion is made while the deletion process, S402-S404, is being performed in a



Art Unit: 2625

repetitive manner). Tokukaihei further teaches a user (see paragraph 57) who requests the suspension of the invalidation (see paragraphs 51-57), wherein the invalidation being performed cannot be suspended unless approved by the user requesting the suspension (see paragraphs 51-57, note the request for stopping the deletion is made by the user thus it is apparent that user approves or agrees to it), and thus allowing urgent data processing of a new job to be carried out (see paragraphs 51-57).

Ikegami teaches permitting a invalidation (S195, fig. 19), in response to a request of the invalidation (delete) by directing means (by pressing delete key), after a predetermined code (password) is inputted by a user, the predetermined code being matched with a code administrated in the image processing device to confirm that the user who requested the invalidation (delete) is a certified user (authorized user) and invalidation is then performed in all areas of selected personal box (see abstract and figure 19 with text), wherein the invalidation cannot be performed unless approved by the certified user by entry of the predetermined code (see figure 19 with text), thus maintaining a security level (see abstract; figure 19; column 15, lines 30-38).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify the printing apparatus as disclosed by Koakutsu to include image processing method as taught by Tokukaihei (Inoue Rieko), and image processing techniques with added security as taught by Ikegami and combine the step of suspending the deletion process in progress as taught by Tokukaihei with the step of requiring and entry of a password for permitting an interrupt process such as deletion process as taught by Ikegami *such that when user would like to suspend the deletion*

Art Unit: 2625

*process being performed (in progress) (as taught by Tokukaihei), a correct password entry would be required (as taught by Ikegami which requires password entry to permit an interrupt process such as deletion process)* in order to add further security to deletion process which allows only certain permitted users to carry out the deletion process and for the benefit of attaining satisfactory security for the image data stored in the memory as taught by Tokukaihei in abstract, and having a system in which “an individual other than a legitimate user is not allowed to perform maintenance on this personal box even if the personal box is one for which a password is not necessary when printing data from the box” as taught by Ikegami at column 1, lines 59-67. Therefore, it would have been obvious to combine the teachings of Koakutsu, Tokukaihei (Rieko), and Ikegami to obtain the invention as specified in claim 1.

Re claim 2, Koakutsu fails to explicitly disclose the image data invalidating means continues the invalidation until the suspension of the invalidation is permitted.

However, Tokukaihei teaches the image data invalidating (i.e. deleting) means continues the invalidation (i.e. deletion) until the suspension (i.e. stopping) of the invalidation (i.e. deletion) is permitted (see paragraph 55, note that the deletion will be stopped once the request for stopping the deletion is made, hence the request is being permitted).

Re claim 3, Koakutsu fails to disclose the permitting means permits the suspension of the invalidation after obtaining approval by an administrator who administrates the image processing device.

Tokukaihei further teaches permitting means for permitting the suspension of the invalidation being performed, in response to a request of the suspension of the invalidation by the user (see abstract, paragraphs 51-56 and discussion of claim 1 above).

Ikegami teaches permitting a invalidation (S195, fig. 19) after obtaining approval (i.e. correct password) by an administrator (i.e. user) who administrates the image-processing device (figure 6 shows image processing device) (see figure 19 with text).

Re claim 4, Koakutsu fails to disclose the permitting means permits the suspension of the invalidation by input of a key operator code.

Tokukaihei further teaches permitting means for permitting the suspension of the invalidation being performed, in response to a request of the suspension of the invalidation by the user (see abstract, paragraphs 51-56 and discussion of claim 1 above).

Ikegami teaches permitting a invalidation (S195, fig. 19) by input of a key operator code (i.e. correct password) (see figure 19 with text; abstract) (see figure 16 for password input).

Re claim 5, claim 5 recites identical features, as claim 1, except claim 5 is a method claim. Thus, arguments made for claim 1 are applicable for claim 5.

Re claim 6, Koakutsu fails to disclose the identification of the user who made the request of the invalidation is carried out by input of a key operator code.

However, Ikegami teaches the identification of the user (whether user is authorized or not) who made the request of the invalidation is carried out by input of a key operator code (i.e. password) (see figure 19 with text; abstract) (see also figure 16 for password input; column 15, lines 30-38).

3. Claims 7-8 are rejected under 35 U.S.C. 103 as being unpatentable over Koakutsu et al., US 6,285,459 in view of Inoue Rieko et al. (referred as Tokukaihei in this document), JP 09-284572 further in view of Ikegami, US 6,745,334 further in view of Neilsen, US 6,639,687 further in view of well known art.

Re claim 7, Koakutsu fails to explicitly disclose a display indicating that the invalidation of the image data is in progress.

However, Neilsen teaches a display (element 20, fig. 4a) indicating that the printing of the image data is in progress (see fig. 4a with text). Neilsen further teaches displaying of progress indicator can be performed or indicated for multiple actions or executing tasks (see title and abstract).

However, Official Notice is taken to note that ability to indicate invalidation (deletion) of the image data (deleting of data) in progress on the display is notoriously well known and commonly used in the art. It would have been obvious to display the indication of invalidation of image data (deletion of printing or any other data, for instance, see S94, figure 8) in progress just like in case of print job as shown in fig. 4a,

as one of many executing tasks in the system of Neilsen for the benefit of providing the user with increased flexibility and options.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention to modify the printing apparatus as disclosed by Koakutsu to include image processing method as taught by Tokukaihei (Inoue Rieko), and image processing techniques with added security as taught by Ikegami and progress indicating techniques of Neilsen such that when user would like to suspend the deletion process being performed (in progress) (as taught by Tokukaihei), a correct password entry would be required (as taught by Ikegami for deletion process) in order to add further security to deletion process for the benefit of attaining satisfactory security for the image data stored in the memory as taught by Tokukaihei in abstract, and having a system in which “an individual other than a legitimate user is not allowed to perform maintenance on this personal box even if the personal box is one for which a password is not necessary when printing data from the box” as taught by Ikegami at column 1, lines 59-67 and to obtain status on the execution of the executing operation as taught by Neilsen at col. 1, lines 7-9. Therefore, it would have been obvious to combine the teachings of Koakutsu, Tokukaihei (Rieko), Ikegami, Neilsen and well known art to obtain the invention as specified in claim 7.

Re claim 8, claim 8 recites identical features, as claim 7, except claim 8 is a method claim. Thus, arguments made for claim 7 are applicable for claim 8.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Neilsen teaches permitting means (see figure 11, element 138 or fig. 13, element 182) for permitting the suspension (cancel job, fig. 4a) of the print job being performed (see figures 4a & 13 with text) in response to a request of the suspension of the print job by directing means (cancel job button, fig. 4a), and thus allowing urgent data processing of a new job to be carried out (see figures 4a & 8-9 with text) (see also figures 13-14 with text).

### ***Contact Information***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to PAWANDEEP S. DHINGRA whose telephone number is (571)270-1231. The examiner can normally be reached on M-F, 9:30-7:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David K. Moore can be reached on (571) 272-7437. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic

Art Unit: 2625

Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/P. D./

Examiner, Art Unit 2625

/David K Moore/

Supervisory Patent Examiner, Art Unit 2625